**GUIDE SPECIFICATIONS FOR PRECAST TERRAZZO STAIRS**

**Section 09**

**Part 1 – General**

**1.01 Related work specified in other sections**

*Note: Delete nonapplicable items*

1. Installation of concrete substrate to receive precast terrazzo stairs,

Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Installation of metal stairs, either pan type or supporting tubular stringers,

Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Backup walls of metal lath or masonry to receive precast terrazzo items,

Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Sufficient water, temporary heat & light and adequate electric power with suitable outlets connected & distributed use within 100 feet of any working space.

*Note: Ambient temperature shall be maintained at a minimum of 50° Fahrenheit.*

1. Substrate must meet L/360 at a minimum
2. Broom clean area to receive precast terrazzo of all loose chips, laitance and all foreign matter.

**1.02 Quality Assurance**

1. Acceptable supplier:
2. Materials furnished shall meet NTMA specifications.
3. Installer qualifications:
4. The installer shall be a contractor member of NTMA and shall perform all work in accordance with NTMA standards.
5. If the installer is not an NTMA contractor member, the installer shall submit a list of completed projects of a similar magnitude and complexity.

**1.03 Submittal**

1. Shop Drawings:
2. Submit shop drawings of all precast terrazzo items showing detail sections and profile of all precast items. Details shall show all reinforcing and special hardware for fastening rails.
3. Samples:
4. Submit maximum of 3 samples, 6”x6” in size for each color.
5. Submit 2 copies of NTMA maintenance literature
6. Certification:
7. Suppliers shall furnish certification attesting that materials meet specification requirements.

**1.04 Delivery, storage and handling**

1. Delivery of materials:
2. Deliver materials in a manner to prevent damage to containers.
3. Storage of materials:
4. Store materials in a clean, dry and heated (if necessary) location (50° - 90° Fahrenheit) furnished by others.

**1.05 Guarantee**

1. One year from the date of substantial completion of terrazzo installation.

**Part 2 – Products**

**2.01 Products**

1. Setting material shall be either epoxy or polymer-based cement with approval of precast supplier and material supplier.
2. Marble chips size to conform with NTMA gradation standards.
3. Precast Terrazzo:
4. Shape and size as indicated on drawings.
	1. Typical size would be 3/4” at 6 ft +/- 1/8” length.
	2. Other lengths and thicknesses may be available. Consult precast manufacturer.
5. Abrasive safety lines may be added to meet local code. Consult precast supplier for type of abrasive and quantity of strip.

*Note: Specify one-to-three-line abrasive inserts.*

1. Precast Terrazzo Stair Nosing:
2. Must be a product/system that can be integrated into the fabrication process without impeding the ability to fabricate, grind, and polish the precast terrazzo stairs.
3. Stair nosing systems must be verified as acceptable by the precast terrazzo fabricator.
4. Terrazzo Cleaners:
5. Ph factor between 7 and 10, where applicable.
6. Biodegradable and phosphate free.
7. Sealer:
8. Ph factor between 7 and 10, where applicable.
9. Shall not discolor or amber.
10. Type specially prepared for use on terrazzo.
11. Flash Point: ASTM D 56, 80° Fahrenheit minimum, where applicable.
12. Neither after-market nor high polish systems are recommended on stairs.

**Part 3 – Execution**

**3.01 Inspection**

1. Examine areas to receive terrazzo for:
2. Defects in existing work that affect proper execution of terrazzo.
3. Deviations beyond allowable tolerances for the substrate.
4. Start work only when all defects have been corrected by others.

**3.02 Installation**

1. Setting:
2. Set accurately as shown on approved shop drawings. Setting methods are:
3. Typical setting bed is to not exceed 1/4”. Additional material to correct deviation from plane in substrate may result in extra cost.
4. Alignments of precast should be straight and true to all dimensions. It may not vary more than 1/8” in length, height or width.
5. Install anchors as shown in the details.
6. Fill joints between sections with caulking as per trade practice, or as specified.
7. Protection:
8. Upon completion, the work shall be ready for final inspection and acceptance by the owner or his agent.
9. The general contractor shall protect the finished work from the time that the terrazzo contractor completes the work.